

ELET141N : Electronics I

This is a study of the physical behavior of electronic devices. Emphasis is on analysis and application of electronic circuits utilizing semiconductor diodes, bipolar transistors, and field effect transistors. Topics covered include rectification, clipping and clamping circuits, regulated power supplies, basic circuits, biasing of transistors, and simplified AC modeling of transistor circuits. Simulation tools are used to reinforce the theory. Laboratory experimentation reinforces classroom theory with practical work.

Class Hours 3

Lab Hours 3

Credits 4

Prerequisites

ELET131N

Corequisites

MATH120N (or permission of the Program Coordinator).